



#### Supplemental Movie S1

Echocardiography was performed 4 weeks after injection of oil into  $\alpha$ -MHC-MerCreMer heterozygous mice. This transthoracic echocardiogram in B- and M-mode shows normal cardiac function.



#### Supplemental Movie S2

Echocardiography was performed 4 weeks after injection of 60  $\mu$ g/gm of tamoxifen into  $\alpha$ -MHC-MerCreMer heterozygous mice. This transthoracic echocardiogram in B- and M-mode shows decrease in cardiac function.